

SRS Site Needs





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Sludge Mass Reduction Program Concept

- Two Key Objectives:
 - 1) Improve Life Cycle Completion Date from 2035 to 2028
 - Aligns with Site Treatment Plan
 - 2) Reduce Overall Canisters Produced
 - Reduces legacy cost
- Recommend Multi-Phased Approach

Multi-Phase Approach Concept

Tank Farm Condition	Sludge Mass Reduction	Glass Formers	Batching	Melter
•No salt process •No extra tank space	Develop overall strategyDocument in PlanningDocuments	•Deployment plan for alternate frits	•Delay high Al tanks	•Initiate alternative melter testing
Interim Salt Treatment (ARP/MCU) operatingSome space	•Do what we can with simple, affordable modifications: -Low temperature -1 or 2 NaOH strikes -Store Al-rich stream in Tanks 11/13	•Deploy alt frits: -Increase melt rate -Increase throughput	•Develop plan for Tanks 23/47: • This waste is not HLW by definition but has been contaminated with HLW	•Develop plan for alternative melter deployment
•SWPF operating •Adequate space •Purge point for Alrich stream	Longterm mods:–Hi temp–Dedicated tank–Al rich stream to SWPF	•Continue to refine frits	•Implement plan for Tanks 23/47	•Deploy alternative melter: -Waste loading -Throughput